

Consolidate Reporting of Earthquakes and Tsunamis (CREST) – Oppenheimer/Weaver

Statement of Work:

The USGS will manage the seismic component of the Tsunami Hazard Mitigation Program, also known as the Consolidate Reporting of Earthquakes and Tsunamis (CREST) project. The USGS will coordinate efforts between USGS and USGS-supported seismic networks and NOAA tsunami warning centers so that continuous seismic waveform data is available to the warning centers in real-time over dedicated telephone circuits and the Internet. Software support will be provided by the USGS to the tsunami warning centers as well as to USGS-supported seismic networks.

This budget does not reflect CREST work conducted by the University of Alaska, Fairbanks, which is being funded separately by the NOAA. In FY2002 CREST participants were unable to complete the installation of the remaining seismic stations in Cascadia and Alaska due to equipment delays and failures. That work will be completed in FY03 with FY02 funds. In addition,

1. CREST will maintain all dedicated telemetry circuits between the NOAA tsunami warning centers in Eva Beach, HI and Palmer, AK with USGS and USGS-supported seismic networks in Golden, CO; Menlo Park, CA; Fairbanks, AK; Volcano National Park, HI; and Seattle, WA. CREST will also support circuits to individual seismic stations operated by cooperating seismic networks when this arrangement is most cost-effective. **Cost= \$177,000**
2. The USGS will support the maintenance of 56 seismic stations in Alaska (WC/ATWC only), Hawaii, Washington, Oregon, and California and associated telemetry that were upgraded/installed under the Tsunami Hazard Mitigation Program. Included in these costs are telemetry, hardware replacements, site maintenance travel, per diem, mileage, helicopter, leases, batteries, and USGS salary. **Cost = \$110,200**
3. CREST will support salaries for technicians at the University of Washington and University of Oregon who maintain CREST stations, computer personnel, seismologists, and software consultants. This expense will be administered through USGS External Grant contracts. **Cost=\$66,500**
4. USGS overhead is charged at 27.33%. **Cost= \$96,600**

Total cost of USGS-supported work = **\$450,300**